

# Stella Yang

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## EDUCATION

### BS in Computer Science, Minor in Math & Cybersecurity | Texas A&M University

Aug 2021 - May 2025

- GPA: **3.92/4.0** - Summa Cum Laude, Engineering Honors
- Undergraduate Research Scholar Thesis: Test-Driven Regular Expression Program Synthesis

## PROFESSIONAL EXPERIENCE

### Software Engineering Intern | Salesforce

May 2024 - Aug 2024

- Contributed to **Heroku Cloud Native Buildpacks**, enhancing the image-building pipeline for **Kubernetes** to support reliable builds across a wide range of project types.
- Tested buildpacks against popular open-source applications to verify out-of-the-box compatibility, identifying and resolving numerous edge-case failures.
- Integrated a tool into the **GitHub Actions CI/CD** pipeline to capture and inject live console output into tutorials, ensuring documentation remains accurate and actionable.

### Software Engineering Intern | Sandia National Laboratories

May 2023 - Feb 2024

- Developed monitoring pipelines using **Elastic Stack (Beats, Logstash, Kibana)** to ensure data from a small-scale autonomous telescope was consistently collected and protected from disruptions.
- Built **Kibana dashboards** to visualize real-time system performance, enabling early detection of data interruptions from power, network, or weather and cutting 2 hours of observation time per collect.
- Visualized orbital tracks of an upcoming satellite launch on an interactive **JavaScript** browser app.

### Data Engineer Intern | Datalogz

Apr 2022 - Aug 2023

- Developed and integrated PII detection tools on **Snowflake** to streamline GDPR compliance.

### Data Engineer Intern | MSBAI

Aug 2019 - Sep 2020

- Trained **ML classifier** using **Tensorflow** with an 85% accuracy targeting aerospace simulation configuration.

## PROJECTS & LEADERSHIP EXPERIENCE

### Project Lead | Construction Blueprint Analysis App

Jan 2025 - May 2025

- Built a web app with **AWS Amplify**, **React**, and **Vue.js** to automatically detect steel beams in blueprints and extract takeoff data for faster, more accurate construction estimates.

### Product Owner | Fin Lit Quest

Dec 2024 - May 2024

- Applied and adapted **agile** practices to optimize team collaboration, user flow design, and delivery of accessible financial education content in a gamified financial literacy app using **Ruby on Rails**.

### Lead Teaching Assistant | Texas A&M Computer Science

Aug 2023 - Dec 2024

- Guided ~400 students in 3 semesters from **Java** programming to collaborative product development

### Challenge Developer | TAMUctf (Student-Run Team)

Jan 2022 - Apr 2025

- Designed challenges for and organized 11 capture-the-flag competitions to ~5000 contestants.
- Deployed scalable infrastructure using **Docker**, **nginx** (as load balancer and reverse proxy), and the CTFd platform, supported by custom tooling to automate container orchestration and networking configuration.
- Monitored **logs** and managed **firewalls** to proactively detect and block brute-force attacks and abuse.

### Tech Lead Officer | Texas A&M Cybersecurity Club

Oct 2021 - Jun 2024

- Engineered Discord bot using **Python** to streamline club logistics for ~3000 members.
- Led a 10-person team to maintain and expand features, including user-friendly dashboards for sponsors.
- Gained hands-on expertise in binary exploitation, reverse engineering, penetration testing, and OSINT.

## ADDITIONAL INFORMATION

- Programing Languages: Python · Ruby · HTML · CSS · Java · JavaScript · C++ · C · Bash · SQL · RegEx
- Tools/Platforms: git · Cloud Computing · Linux · React · Rails · Elasticsearch · Kibana · REST APIs